

Specifications for High Resolution, Color Zoom C55X Camera System

Solicitation Number: W9124R05T0057

Response Date: 8 September 2005, 12:00 PM MST

Technical Questions: 1 September 2005, 12:00 PM MST

The specifications for the High Resolution, Color Zoom C55X Camera System must be as follows:

SECTION C Long Range Lens System SPECIFICATIONS

C.1 SCOPE: These specifications set forth the Government's minimum requirements for a Long Range Lens System. The Long Range Lens System will be used for Optics Branch imaging of Army materiel test.

C.2 CONFIGURATION: The Long Range Lens System shall be turnkey, configured of standard commercial off the shelf (COTS) catalog advertised items and shall meet or exceed all of the following specifications. The vendor shall provide several examples of past performance on this COTS item and point of contact.

C.3 CAPABILITY: The Long Range Lens System shall be a rugged field deployable assembly capable of use in low desert terrain environments.

C.4 SPECIFICATIONS:

C.4.1 Imager:

C.4.1.1 Shall have a minimum horizontal resolution of 800 lines.

C.4.1.2 Shall have a minimum of 410,000 pixels, Hi Resolution Compact 1/3" Color 3 CCD Camera.

C.4.1.3 The imager shall have a minimum of 64db Signal to Noise ratio.

C.4.1.4 The imager shall be 3rd Generation DSP with 12 bit A/D.

C.4.1.5 Shall minimally have an Automatic Gain Control (AGC 0 to +24dB), manual gain (0 to +24dB in 1 dB steps), with a minimum of 1 lux sensitivity or less.

C.4.1.6 The camera unit shall provide a Cosmimar/Pentax C55X Zoom Lens or equal, capable of 12mm to 660 mm (24mm to 1320mm with optical doubler, remote controlled) with an F/1.4 to F/ 7.2 Motorized, Auto /Manual Iris

C.4.2 Communications:

C.4.2.1 Shall have a minimum of RS232C Control link for control and configuration.

C.4.2.2 Shall have an NTSC video BNC connection for alignment, video playback and focus.

C.4.2.3 Shall have Y/C and RGB video outputs..

C.4.3 Lens mount: Shall be a standard C-mount.

C.4.4 Pan and Tilt: The system shall meet or exceed the specification for the QuickSet QPT-90-24DC.

C.4.5 Power requirements:

C.4.5.1 Shall operate on 120 VAC 60 Hz nominal power at less than 15 amperes.

C.4.5.2 Shall initialize within two minutes of application of power.

C.4.6 Physical and Environmental:

C.4.6.1 The minimum operating temperature range shall be Ambient operation (32°F to 113°F). degrees Fahrenheit.

C.4.6.2 Shall have a Nitrogen gas charged Environmental Housing for the Lens with Camera and Power Supply Installed. This housing is design

specifically for this lens and will provide dust and moisture protection in a desert environment

C.4.6.3 The housing with lens and camera integrated shall weigh less than 30 pounds.

C.4.7 Accessories:

C.4.7.1 Shall include all adapters and cables necessary for power and communications interface. All wiring, Integration, Lens Tracking with Camera, and all functions Tested and Delivered as a complete system. Pan/Tilt Cable from controller to QPT90 Camera Lens Control cable 15Foot Cable Length: From Camera/Lens to Hand Controller Unit, 15Foot Cable Length.

C.4.7.2 Shall include all operator manuals, maintenance manuals and Includes One Day On site Training and Orientation. Does not include installation.

C.4.7.3 Shall include remote operation software for use with a Microsoft Windows XP Professional system.

C.4.7.4 Hand Remote: Receiver Controller Zoom, Focus, Auto/manual Iris and access to all Menu Functions of the Camera. Control and Power for Pan/Tilt / and Speed Control for pan and tilt from GUI Software Control Panel on LCD. Hand remote **must** work simultaneously and in parallel with the computer GUI. The system will also be capable of being remotely controlled via RS485 and 100BaseT Ethernet adaptors.